

*Morgan,*  
I 6 8 6.

*The* BOSTON EPHEMERIS.

A N

# ALMANACK

Of Coelestial Motions of the Sun &  
Planets, with some of the principal Aspects

For the Year of the Christian ÆRA

MDC LXXXVI.

Being in our Account the third after  
Leap-year, and from the Creation

5635.

*The Vulgar Notes of which are*

Cycle of D	15	} {	Cycle of ☉	15
Dominical Letter	C		Epact	15

Calculated for and fitted to the Meridian of *Boston* in  
*New-England*, where the *North Pole* is elevated 42.  
gr. 21 m.

By *Nathanael Mather.*

NEW-ENGLAND,

*Boston*, Printed and Sold by *Samuel Green*, 1686.

*Recd* 2r. 25. 1685.

## Concerning Eclipses this Year.

**T** Here will be only one Eclipse, and that of the Moon which will be visible here in *Boston*, on *November*, 19. 1688.

At which time according to the *Caroline Tables*

The beginning of the Eclipse will be 6. h. 39. m. 46. sec.

The true  $\odot$  of  $\odot$  and  $\odot$  is, 8. 5. 40 sec.

The middle of the Eclipse, 7. 58. 46.

The end of the Eclipse, 9. 17. 46

Lasts, 2. h. 38. m.

Digits Eclipsed, 5. dig. 16. min.

Concerning some late discoveries respecting the fixed Stars.

**T** He Telescope discovers in the *Pleiades* in a Circle of one gr. diameter, the number of 46. Stars, whereas with the naked eye we can perceive but six in that Compass, the seventh having disappeared many Ages since. Of those which are counted single Stars, divers prove a congeries of many Stars, though from their near approaching each to other, the naked eye cannot distinguish them.

That Excellent Mathematician, Mr. Robert Hook hath lately discovered that there is a sensible parallax of the Earths Orb among the fixed Stars, which some think doth undeniably prove the Truth of the Copernican System. There was a time when it was judged heresie to maintain that there are Antipodes; and ignorant People still think that if there should be men on the other side of the World with their feet towards ours, and their heads downwards, they must needs either fall down into the Skies, or make their brains addle. There are very Learned Men who no more doubt that the Earths motion will be generally received within a small Compass of Years, then that now they believe the Antipodes.



# MARCH hath 31 Dayes.

Last quar. 7 day 1 min. past 2 morn.  
 New moon 13 day 24 min. past 9 night  
 First quarter 21 day 23 min. past 6 night  
 Full moon 29 day 18 min. past 2 aftern

M.VV. Planets asp. &c. R O S O pl. D place

1 2	h 26 51 m R	6 13 6	21	41	Li ra
2 3	Co. Assist. Boston.	6 11 6	22	41	
3 4		6 10 6	23	40	Scorp'o
4 5	Court Harford	6 09 6	24	40	
5 6	u 22 47 m R.	6 07 6	25	40	Sagit.
6 7	♂ Sol h	6 05 6	26	39	
7 8	* ♂ ♀	6 04 6	27	39	Capric.
8 2	Lun Perig	6 03 6	28	38	
9 3	Court Fairfield	6 01 6	29	38	Aquar
10 4	♂ 9 28 D	6 00 6	00	37	
11 5	* ♀	5 59 7	01	37	
12 6	♂ Lun ♀	5 57 7	02	36	Pisces
13 7	♂ Lun h	5 56 7	03	35	
14 8		5 55 7	04	35	Aries
15 2	♀ 4 3 min D R	5 53 7	05	34	
16 3	Court at Plimouth	5 52 7	06	33	Taurus
17 4	♂ u	5 50 7	07	32	
18 5	♂ h ♀	5 48 7	08	31	Gemini
19 6	♂ h	5 46 7	09	30	
20 7	□ h	5 44 7	10	30	
21 8	Lun Apog.	5 43 7	11	29	C ncer
22 2	△ Lun u	5 41 7	12	28	
23 3	□ ♀	5 40 7	13	27	Leo
24 4	△ Lun D	5 39 7	14	25	
25 5	♀ 9 15 V	5 38 7	15	24	
26 6		5 37 7	16	23	Virgo
27 7	♂ h High Tiles	5 36 7	17	22	
28 8		5 34 7	18	21	Libra
29 2		5 33 7	19	20	
30 3	Co. Ipswich & North-	5 31 7	20	18	Scorpio
31 4	(Hampton)	5 30 7	21	17	

# APRIL hath 30 Dayes.

Last quarter 5 day 29 min. past 7 morn  
 New moon 12 day 6 min. before noon  
 First quar. 20 day 35 min past noon  
 Full moon 27 day 22 min. past 10 night

M.VV. Planets aspects, &c. R ☉ S ☽ pl. ☾ place.

15	h 24 35 m R	5 28 7	22 v 15	Sagit
26	□ h D D 23	5 27 7	23 14	
37	☿ ☽	5 26 7	24 13	Capric.
4c	☾ perig	5 24 7	25 11	
52	♄ 20 39 m R	5 23 7	26 10	
63	Court at Cambridg	5 21 7	27 08	Aquar
74	□ ☽	5 20 7	28 07	
85	△ ☽	5 19 7	29 05	Pisces
96	☿ Lun h	5 17 7	00 ☽ 04	
107	☿ 57 min II D	5 16 7	01 02	Aries
11c	☿ ☽	5 14 7	02 00	
122		5 13 7	02 59	Taurus
133	Court at Salisbury	5 12 7	03 57	
144	☿ ☽	5 12 7	04 55	
155	☽ ☽	5 10 7	05 53	Gemini
166	△ h ☽	5 09 7	06 51	
177	* ☽	5 08 7	07 50	Cancer
18c	☾ apog.	5 06 7	08 48	
192	* ☽	5 05 7	09 46	
203	☿ 18 17 v R	5 04 7	10 44	Leo
214	☿ Lun ♄	5 02 7	11 42	
225	□ ☽	5 01 7	12 40	Virgo
236	☿ h Lun	5 00 7	13 38	
247		4 59 8	14 36	Lib
25c	☿ ☽ Venus	4 58 8	15 33	
262		4 56 8	16 31	
273	Coun: Court Boston	4 55 8	17 29	Scorpio
284	☿ ☽	4 54 8	18 27	
295	High tides	4 53 8	19 25	Sagit,
306	☿ 10 41 II D.	4 52 8	20 22	



# MAT hath 31 Dayes.

Last quar. 4 day 3 min. past 1 aftern  
 New moon 11 day 30 min. 20 sec. before midn,  
 First quar. 20 day 40 min. past 4 morn.  
 Full moon 27 day 22 min past 6 morn

M W	Plan.aspects &c.	R	☉	S	☉	pl.	D	plac <sup>c</sup>
17	h 23 14 m R	4	51	8	21	☉	20	Capric
20	Lun Perig	4	47	8	22		18	
32	△☉h	4	48	8	23		15	aquarie
43		4	47	8	24		13	
54	Jup. 16 57 m R	4	46	8	25		11	Pisces
65	☿☽h	4	45	8	26		08	
76		4	44	8	27		06	aries
87	*☿☿	4	43	8	28		03	
90		4	42	8	29		01	
102	☿ 20 50 I II D	4	41	8	29	II	59	Taurus
113	Moon changes NNE,	4	41	8	00		56	
124	Court ELECT. Boston	4	40	8	01		53	Gemini
135	Court ELECT. Harf.	4	39	8	02		51	
146		4	38	8	03		48	Cancer
157		4	38	8	04		46	
160	☐☿ Lun apog.	4	37	8	05		43	
172	*☽☉	4	36	8	06		41	Leo
183		4	35	8	07		38	
194		4	34	8	08		35	Virgo
205	☿ 26 19 V D	4	34	8	09		32	
216	☽☽h	4	33	8	10		30	
227		4	32	8	11		27	Libra
230	☿☽ Venus	4	32	8	12		24	
242	☿☽ Jup.	4	31	8	13		22	Scorpio
253	Court Assist. Hartford	4	31	8	14		19	
264	Lun ☽	4	30	8	15		16	Sagitta.
275		4	30	8	16		13	
286	☿ Lun ☿	4	29	8	17		10	Capric
297		4	28	8	18		08	
300	Lun perig	4	28	8	19		05	aquar
312	☿ 5 3 II R	4	28	8	20		02	

# JUNE hath 30 Dayes.

Last quar. 2 day 12 min. past 8 night  
 New moon 10 day 38 min past 4 aftern  
 First quar. 18 day 4 min past 7 night  
 Full moon 25 day 47 min. past noon

M.W.	Planets asp. &c.	R	⊙	S	⊙	pl.	place
1	3	Co. Elect. Plymouth &	4	28	8	20	II 59 Pisces
2	4	( Co. N. London	4	27	8	21	56
3	5		4	27	8	22	53 Aries
4	6	☐☉h	4	27	8	23	50
5	7	♄ 13 50 m R	4	27	8	24	48
6	c	♂ Lun ♀	4	27	8	25	45 Taurus
7	2	Artif. Elect. Boston	4	26	8	26	42
8	3	♂ ♀	4	26	8	27	39 Gemini
9	4	Co. N. Haven	4	26	8	28	36
10	5	♂ II 27 ☿ D	4	26	8	29	33
11	6	△♄	4	26	8	00	30 Cancer
12	7	☾ Apog	4	26	8	01	27
13	c	△♄♂	4	26	8	02	24 Leo
14	2	☐♄	4	26	8	03	21
15	3	Coun. Co. Charlstown	4	26	8	04	18
16	4	* ☉ Lun	4	27	8	05	15 Virgo
17	5	♂ Lun h	4	27	8	06	12
18	6	☐☉	4	27	8	07	09 Libra
19	7	☐♂	4	27	8	08	07
20	c	♀ 22 56 ☿ D	4	28	8	09	04 Scorpio
21	2	△h♀	4	28	8	10	01
22	3	♂ Venus	4	28	8	10	58
23	4	☾	4	28	8	11	55 Sagitta.
24	5	△☉Jup	4	28	8	12	52
25	6	☐h♀	4	29	8	13	49 Capric
26	7	Lun Perig	4	29	8	14	46
27	c		4	30	8	15	43 Aquar
28	2	☐ Venus	4	31	8	16	40
29	3	Coun. Co. Salem	4	31	8	17	37 Pisces
30	4	♀ 3 58 ☿ D	4	32	8	18	34



# JULY hath 31 Dayes.

Last quar. 2 day 27 min. past 6 morn  
 New moon 10 day 21 min. past 7 Morn.  
 First quar. 18 day 19 min. past 5 morn.  
 Full moon 24 day 6 min past 8 night  
 Last quarter 31 day 34 min. past 9 night

M W	Plan.aspects &c.	R	S	pl.	D place
1 5	h 24 52 m D	4	32	8	19 31 aries
2 6	☐ ☽ ♂	4	32	8	20 29
3 7	* ☽ ♂	4	34	8	21 26 Taurus
4 C	♂ Lun ♄	4	34	8	22 23
5 2	Artil. Election Salem.	4	35	8	23 20 Gemini
6 3		4	36	8	24 17
7 4	COMMENCEMENT.	4	37	8	25 14
8 5		4	37	8	26 11 Cancer
9 6	△ ☽ ♄	4	38	8	27 09
10 7	♄ 13 13 m D Capog	4	39	8	28 06
11 C	☐ ☽ ♄	4	40	8	29 03 Leo
12 2		4	41	8	00 00
13 3	♂ ☉ ♀	4	41	8	00 57 Virgo
14 4	♂ ♂ ♀	4	43	8	01 55
15 5	♂ 4 ♄ D	4	44	8	02 52 Libra
16 6		4	45	8	03 49
17 7		4	46	8	04 46
18 C	♂ ☉ ♂	4	47	8	05 44 Scorpio
19 2	☐ ♄ ♀	4	48	8	06 41
20 3	♀ 24 40 ♄ D Lun ♄	4	49	8	07 38 Sagitta.
21 4		4	51	8	08 36
22 5	☐ ♄ ♀	4	52	8	09 34 Capric
23 6	High Tides Lun Perig	4	52	8	10 31
24 7	♂ ☽ ♂	4	53	8	11 28 aquar
25 C	♀ 24 57 ♄ D	4	54	8	12 25
26 2	△ Lun ♀	4	55	8	13 23 Pisces
27 3	County Court Boston	4	56	8	14 20
28 4	☐ Lun ♀	4	58	8	15 18 Aries
29 5	△ ☉ Lun	4	59	8	16 15
30 6	* Lun ♀	5	00	7	17 13 Taurus
31 7	♀ 5 33 m D	5	01	7	18 10

# AUGUST hath 31 Dayes.

New moon 8 day 22 min. past 10 night  
 First quarter 16 day 23 min. before noon  
 Full moon 23 day 12 min. past 4 morn  
 Last quar. 30 day 36 before noon.

M.VV.	Planets asp. &c.	R	S	pl.	place
1c	h 27 38 m D	5	02	7	19 08 Taurus
22	* D ♂	5	03	7	20 06 Gemini
33	* ☉	5	05	7	21 03
44	☐ Lun h	5	06	7	22 01 Cancer
55	♄ 15 5 m D.	5	08	7	22 59
66	* Lun h	5	08	7	23 56
77	☐ ♀	5	09	7	24 54 Leo
8c	Lun Apog.	5	10	7	25 52
92		5	12	7	26 49
103	♂ 20 37 ♄ D	5	13	7	27 47 Virgo
114	♂ Lun h	5	14	7	28 45
125		5	16	7	29 43 Libra
136	* Lun ♂ ☐ Lun ♀	5	17	7	00 41
147	* Lun ☉	5	19	7	01 39 Scorpio
152	♂ ♄	5	20	7	02 37
16c	Conj. h & ♀	5	21	7	03 35 Sagit.
173	☾ ♄	5	23	7	04 33
184	☐ ♄ h	5	24	7	05 31 Capric.
195		5	26	7	06 29
206	♀ 16 min ♄ D.	5	27	7	07 27 Aquar
217	Lun Perig	5	28	7	08 25
22c	♂ D ♂	5	30	7	09 23 Pisces
232	Δ L n ♄ Buda.	5	31	7	10 21 taken
243	♂ ♄ h	5	33	7	11 20
254	♂ D ♀	5	34	7	12 18 Aries
265	Δ Lun ♂	5	36	7	13 16
276	Δ Lun ☉	5	37	7	14 15 Taurus
287	♂ ♄	5	38	7	15 13
29c	Lun ♄	5	40	7	16 11 Gemini
302	♀ 13 32 m n D	5	41	7	17 09
313		5	43	7	18 08



# SEPTEMBER hath 30 Dayes.

New moon 7 day 20 min past 1 aftern

First quar. 14 day 37 min past 8 night

Full moon 21 day 8 min. past 2 aftern

Last quar. 28 day 54 min. past 9 morn.

M.W.	Planets asp. &c.	R	S	pl.	place
1 4	h 1 11 = D	5	44	719	07 Cancer
2 5	* D O ) Apog	5	46	720	05
3 6	Δ D h	5	47	721	04 Leo
4 7	♂ Lun Q	5	49	722	02
5 c	♄ 19 20 m D	5	50	723	01
6 2	♂ Lun ♂	5	51	724	00 Virgo
7 3	Court Assist Boston	5	53	724	58
8 4	♂ h	5	53	725	57 Libra
9 5	♂ Lun ♀	5	54	726	56
10 6	♂ 10 19 m D	5	56	727	55 Scorpio
11 7	♂ ♄	5	57	728	54
12 c	* O Lun	5	59	729	52
13 2	Artil. Elect. Cambr.	6	00	600	51 Sagitta.
14 3	□ D h	6	01	601	50
15 4	♂ Sol h	6	03	602	49 Capric
16 5	Lun Perig	6	04	603	48
17 6	Δ ♀	6	05	604	47 Aquar.
18 7		6	07	605	46
19 c		6	09	606	46 Pisces
20 2	♀ 7 34 m D	6	10	607	45
21 3	County Co. N.Lond.	6	11	608	45 Aries
22 4		6	13	609	44
23 5		6	14	610	43 Taurus
24 6	♂ h ♀	6	16	611	42
25 7		6	17	612	42 Gemini
26 c	♄ Ω	6	19	613	41
27 2		6	20	614	41
28 3	C.Ipsw.& Springfield	6	22	615	40 Cancer
29 4		6	23	616	39
30 5	♀ 1 41 = D	6	24	617	39 Leo

# OCTOBER hath 31 Dayes.

New moon 7 day 23 min past 3 morn  
 First Quarter 14 day 40 min past 2 morn  
 Full moon 21 day 44 min past 2 morn  
 Last quar. 29 day 39 min past 1 morn

M: W      Plan: Aspect, &c:    R   ☉   S   ☽   pl      place

1	6	h 4 51	Libra D	6 26	6	18	38	Leo
2	7	* 4 ♂		6 28	6	19	38	
3	c			6 29	6	20	37	Virgo
4	2	* ♀ Venus		6 30	6	21	37	
5	3	Coun. Court Cambr.		6 32	6	22	37	Libra
6	4	Conj. h ♀		6 34	6	23	36	
7	5			6 35	6	24	36	
8	6			6 37	6	25	36	Scorpio
9	7	♂ ♀ Jup		6 39	6	26	36	
10	c	♂ 25 57 Scor. D		6 40	6	27	36	Sagitta
11	2	* ☉		6 41	6	28	36	
12	3	Court Assist Harford		6 42	6	29	36	Capric.
13	4	♂ h ♀		6 43	6	00 <sup>m</sup>	36	
14	5	Lun Perig.		6 44	6	01	36	Aquar.
15	6	☐ ♀ Jup		6 45	6	02	36	
16	7	△ Sol Lun		6 47	6	03	36	Pisces
17	c			6 48	6	04	36	
18	2	♂ Mars Lun		6 49	6	05	36	Aries
19	3	Court Barnstable		6 50	6	06	36	
20	4	♂ 5 43 Libra D		6 51	6	07	37	
21	5			6 53	6	08	37	Taurus
22	6	♂ 5 2		6 54	6	09	37	
23	7	♂ h ♂		6 55	6	10	37	Gemini
24	c	△ ♀ ♀		6 56	6	11	38	
25	2	♀ 20 55 Libra D		6 58	6	12	38	Cancer
26	3	Cc. Boston		7 00	7	13	39	
27	4	△ Lun ♀		7 01	7	14	39	
28	5	Lun Apog		7 02	7	15	40	Leo
29	6	* Lun Venus		7 04	7	16	40	
30	7			7 05	7	17	41	Virgo
31	c	♀ 14 25 m D		7 06	7	18	41	



# NOVEMBER hath 30 Dayes.

New moon 5 day 38 min past 4 aftern  
 First quar. 12 day 35 min past 9 morn  
 Full moon 19 day 5 min 40 sec. past 8 night  
 Last quar. 27 day 52 min past 9 night

M.w.	Plan. Aspect, &c.	R	S	pl.	place
12	h 8 20 = D	7	07	5	19 m 42 Virgo
23	Court Fairfield	7	08	5	20 42 Libra
34		7	09	5	21 43
45	♂ D ♀	7	11	5	22 44 Scorpio
56	♂ 1 36 ↑ D Norton	7	12	5	23 44
67	Lun ♀	7	13	5	24 45 Sagittar
78	* Lun ♂	7	14	5	25 46
82	♂ Sol Mer.	7	15	5	26 47 Capric
93	Tides high	7	16	5	27 47
104	Court at New-Haven	7	17	5	28 48 Aquar
115	[ ] Perig	7	18	5	29 49
126	Conj Jup ♀	7	19	5	00 50 ↑
137	△ Lun ♀	7	20	5	01 51 Pisces
148	△ ☉	7	21	5	02 52
152	♂ 22 15 Libr D	7	22	5	03 53 Arias
163	Court Bristol	7	22	5	04 54
174		7	23	5	05 55 T. urus
185	♂ ♀	7	24	5	06 56
196	♂ Eclipsed <i>Pocks</i>	7	25	5	07 57 Gemini
207	♀ 23 39 m	7	25	5	08 58
218	△ ♂	7	26	5	09 59
222	□ Lun ♀	7	27	5	11 00 Cancer
233	□ Lun ♂	7	27	5	12 01
244	☾ apog	7	28	5	13 02 Leo
255	♀ 23 48 ↑ D	7	29	5	14 03
266	□ ☾ ♀	7	29	5	15 04
277	□ ☾ Jup:	7	30	5	16 05 Virgo
288	□ ☾ ♀	7	31	5	17 06
292		7	32	5	18 08 Libra
303	Court at Salem	7	32	5	19 09

# DECEMBER hath 31 Dayes.

New moon 5 day 26 min past 4 morn  
 First quar. 11 day 27 min past 8 night  
 Full moon 19 day 37 min past noon  
 Last quar. 27 day 43 min past 4 aftern

M.w.	Plan. Aspect, &c.	R O S	☉ pl.	☾ place
14	h 10 55 = D	7 32 5	20 10	Scorpio
25		7 32 5	21 11	
36	Lun ☿	7 33 5	22 12	
47	♂ ☿ Jup	7 33 5	23 14	Sagitta
58	♂ 8 16 ↑ D	7 33 5	24 15	
62	Conj ☿ ♀	7 33 5	25 16	Capric
73	☐ h ♀	7 34 5	26 17	
84	☾ Perig Rainbow	7 34 5	27 19	Aquar
95		7 34 5	28 20	
106	♂ 8 14 m D	7 34 5	29 21	Pisces
117	☐ ☾ ♀	7 34 5	00 22	
128	♂ L n h Clutterbush	7 34 5	01 24	Aries
132	△ ☾ ♀	7 34 5	02 25	
143	♂ ☿ ♀ Legg.	7 34 5	03 26	T.urus
154		7 34 5	04 28	
165	☾ ♀	7 33 5	05 29	Gemini
176	♂ ☿ Jup:	7 33 5	06 30	
187	♂ ☿ ♀	7 33 5	07 31	
198	☐ Lun h Fisher.	7 33 5	08 33	Cancer
202	☿ 1 15 w D	7 32 5	09 34	
213	Court at Charlstown	7 32 5	10 35	Leo
224	☿ 0 37 = D	7 32 5	11 37	
235	* h ♀	7 32 5	12 38	
246	△ Lun ♀	7 31 5	13 39	Vi rgo
257	* Lun ♂	7 30 5	14 40	
268	△ Lun ♀	7 30 5	15 42	Libra
272	♂ Lun h	7 29 5	16 43	
283	☐ Lun ♀	7 29 5	17 44	
294	☐ h ♀	7 28 5	18 46	Scorpio
305	Lun ☿	7 28 5	19 47	
316	☿ 28 35 w R	7 27 5	20 48	Sagittar

Kingsfisher is between 6 & 7. hundred  
 Tuns.



# JANUARI hath 31 Dayes.

New moon 3 day 17 min past 3 aftern  
 First Quarter 10 day 47 min past 7 morn  
 Full moon 18 day 49 min past 8 morn  
 Last quar. 26 day 50 min past 8 morn

M: W Plan: Aspect, &c: R O S Opl place

1	7	h	12	13	Libra D	7	26	5	21	49	Sagitta.
2	c	* O				7	26	5	22	51	Capric
3	2	Conj.	D	Q	& 3	7	25	5	23	52	
4	3	Conj.	O	Q		7	24	5	24	53	aquar
5	4	14	43	7	D	7	23	5	25	54	
6	5	Conj.	Q	Q		7	22	5	26	55	Pisces
7	6	Lun	Perig.			7	22	5	27	56	
8	7	♂	D	h		7	21	5	28	58	Aries
9	c					7	19	5	29	59	
10	2	♂	27	56	m D	7	18	5	01	00	Taurus
11	3					7	17	5	02	01	
12	4	♂	Mars	Lun		7	16	5	03	02	
13	5	♂	Jup	Funeral		7	15	5	04	03	Gemini
14	6					7	14	5	05	04	
15	7					7	13	5	06	05	Cancer
16	c	♂	Lun	Q		7	12	5	07	06	
17	2					7	11	5	08	07	
18	3			Lun	Apog	7	09	5	09	08	Leo
19	4	Δ	Jup			7	08	5	10	09	
20	5	Q	10	11	≈ D	7	07	5	11	10	Virgo
21	6	Δ	Sol	h		7	06	5	12	11	
22	7	Δ	h	Q		7	05	5	13	12	
23	c	♂	D	h		7	04	5	14	13	Libra
24	2	Conj.	O	Venus		7	02	5	15	14	
25	3	Coun.	Court	Boston		7	01	5	16	15	Scorpio
26	4	D	Q			7	00	5	17	15	
27	5	* 14	Venus			6	59	6	18	16	Sagittta
28	6	* O	14			6	58	6	19	17	
29	7					6	56	6	20	18	Capric.
30	c	□	Lun	h	Sewall	6	55	6	21	18	natus
31	2	Q	26	49	v	6	54	6	22	20	Aquar.

Steph.

# FEBRUARY hath 28 D. yes.

New moon 2 day 35 min. past 1 morn  
 First quar. 8 day 40 fec past 8 night  
 Full moon 17 day 48 min. past 2 morn  
 Last quarter 23 day 9 min. past 6 morn

M.VV. Planets aspects, &c. R ☉ S ☽ pl. ☾ place

<i>Mis.</i>	13	* h ♂ <i>Luscomb</i>	6 52 6	23	☾ 20	Aquar <i>dyes</i>
	24	☾ perig	6 50 6	24	20	Pisces
	35	☐ ☽ ♀ & ♂	6 48 6	25	21	
	46		6 47 6	26	22	Aries
	57	♂ Lun h	6 47 6	27	22	
<i>Steph.</i>	60	* ☽ Sol <i>Sewall</i>	6 46 6	28	23	<i>Baptifatus</i>
	72		6 44 6	29	23	Taurus
	83	☽ ☽	6 42 6	☐ ☽ 24		
	94	☐ ☽ h	6 40 6	01	24	Gemini
	105	♂ ☽ ♀ & ♂	6 39 6	02	25	
	116	☐ ☽ ♀	6 37 6	03	25	Cancer
	127	☐ ☽ h	6 37 6	04	26	
	130		6 36 6	05	26	
	142	* h Lun	6 35 6	06	26	Leo
	153	☽ apog.	6 34 6	07	26	
	164	♂ Jup ♂	6 32 6	08	27	Virgo
	175	♂ ☽ ♀	6 30 6	09	27	
	186	* Jup ♀	6 29 6	10	27	
	197	h 10 58 ☽ R	6 28 6	11	27	Libra
	200	☽ 21 51 ☽ D	6 27 6	12	27	
	212	♂ 24 17 ☽ D	6 26 6	13	27	Scorpio
	223	♀ 21 29 ☽ D	6 24 6	14	27	
	234	☽ 29 22 ☽ D. ☽ ☽	6 22 6	15	27	
<i>Nov</i>	245	h 10 38 ☽ <i>Corlett</i>	6 20 6	16	27	Sagit,
	256	☽ 22 22 ☽	6 19 6	17	27	
	267	♂ 27 20 ☽	6 17 6	18	27	Cap
	270	♀ 27 42 ☽	6 16 6	19	27	
	282	♀ 7 45 ☽	6 14 6	20	26	Aquar



## Concerning late marvellous Astronomical Discoveries in the Planets.

**B**Efore the last Age *Telescopes* were altogether unknown to the world, but since their invention, most wonderful discoveries in the Heavens have been made. It is now Evident that all the Planets are so many *Opaque dense* bodies without any light whatever, and all of them (except the Sun) change their faces like the Moon, so that *Venus* and *Mercury* sometimes appear like an half Moon, and sometimes quite round, according as they are more or less opposite to the Sun, and they have spots in their Superficies just as the Moon has, and of the same blackness. There is also observed that the black spots in the Convexity of the body of the Sun are variable, and do move regularly towards the West, finishing their Revolution in about 26. or 27. dayes; which proves that the body of the Sun turns upon his center with that Motion. These solar spots are judged to be Evaporations from the Body of the Sun, like as Vapours are to the earth which arise from thence, and form themselves into Clouds. There have been also notable discoveries in the Moon, which there is not here space to enlarge upon; only it is evident that the Lucid parts of her Body are rugged like the Earth, and the spots of the Moon resemble the Sea; and the surface of this Planet is set all over with certain round hollows, like pits or wells of several magnitudes. It is also very surprizing that in her Eclipse, when it is Eclipsed a fingers breadth or two to the naked eye, it is not at all Eclipsed if you look on it with a *Telescope*; and when it is quite freed from the Eclipse in the *Telescope*, it yet appears to be Eclipsed a fingers or two breadth to the naked eye [as was observed at *Boston* in the Eclipse on *November* the 30. 1685.]

By the help of the *Telescope* we discover that *Saturn* is not an intire round Globe (as in all former Ages was believed) but that it is composed of two parts, and besides its body it doth consist of a Ring, which encompasseth him about after the manner the Horizon in our Artificial Globes doth encompass them, and is flat upon the verge as they be; sometimes

he appears without his Ring. Mr. *Hugens* has observed, that when it arrives at 20. deg. and half of *Pisces* and *Libra*, it appears round without Arms. 1671. it appeared all round. So again in this last year. 1685. and so it will again 15 years hence. Mr. *Azout* conjectures that within a few years the shadow of the little Moon which attends *Saturn*, will be seen upon the Body of the Planet: as for the four little Moons which move round the Body of *Jupiter*, rising East of him and setting West; those that are the nearest to his Body finish their Revolution with greater Expedition than those that are further off, viz. The first which is distant 3. minutes, finisheth his course in 18. hours, 28. min. 30. sec. The second is distant from  $\Upsilon$  5. min. and ends his Revolution in 3. dayes, 13. hours, 18. min. The third is distant, 8. min. and finisheth his Revolution in 7. dayes, 3. hours, 35. sec. The fourth is distant, 13. min. performs his course in 16 dayes, 18. hours, 9. min. 15. sec. When these little Moons are found interposed between the Sun and Him, they give a shadow upon the Body of *Jupiter*. Perhaps hereafter some notable Discoveries respecting the other Planets, and something more of these also may be mentioned.

These things may seem strange and vulgar minds are unapt to believe them; but they are real truths: Should a man affirm that there may be a slowness of motion proportionable to the supposed swiftness of the Sun, or that a Body may be continually in a direct motion not one minutes time wherein it did not rid some space, and yet that the Body in 10. years together should not move near so far as an hairs breadth, who almost would credit such an assertion. Nevertheless the learned Doctor *Wilkins* and others have by Mathematical demonstration evinced it to be true.

F I N I S.